

[[*from the file wrapper of*]]
Published Unexamined Utility Model Application S52-25854

[[*hand stamped*]] acceptable

Utility Model Registration Application

[[*hand-cancel mark*]]
3,000 yen "paid"

Date: July 23, 1977

Japanese Patent Office Director

1. Name of Device: Liquid Measuring Apparatus with Graduation Markings Visible from Above

2. Name of Creator:

Name: Same as Utility Model Registration Applicant
Address:

3. Utility Model Registration Applicant:

Name: Takizawa, Jiro
Address: Hidaka-machi, Kayama 387-4
Iruma-gun, Saitama Prefecture 350-12

[[*hand stamped*]] JPO 7/25/77

4. Inventory of Attached Documents:

(1) Specification	1
(2) Drawings	1
(3) Duplicate of Application	1
(4) ()

[[*hand stamped*]]
Formality Check – Kurosawa

[[*application number*]] 52 098663

[[*hand written*]] 52-25854

Specification

1. Name of Device:

Liquid Measuring Apparatus with Graduation Markings Visible from Above

2. Scope of the Utility Model Claims to be Registered

This device is a liquid measuring apparatus with a main liquid measuring vessel and a sloped horizontal shelf or other protrusion extending from the wall of the vessel, the surface of the shelf or protrusion being marked with measurement graduations.

3. Detailed Description of the Device

This utility model relates to graduation markings on a liquid measuring apparatus. Large graduated cylinders and the like are used as tools in, for instance, photographic darkroom work. Traditionally, measuring a quantity of liquid in a vessel was difficult unless the user brought his eye level to a level matching that of the liquid in the vessel, or raised the vessel up until the liquid's surface level matched his line of sight. The graduation markings on such existing vessels are illustrated by ②, with X representing the only angle of observation from which measurement was possible.

The current device was conceived with the goal of overcoming those shortcomings and can be described in reference to the drawings, as follows: a sloped horizontal shelf is added to the vessel, as indicated by B, C and B'; and graduation markings ① are marked on the upward facing surface of the shelf so as to allow a user to carry out measurement while observing both the surface of the liquid and the graduation markings, even when an angle of observation such as Z or Y is used.

Consequently, the necessity of changing the position of either the measuring apparatus or one's eye level is largely eliminated, saving both time and effort.

4. Brief Description of the Drawings

Fig. 1 is an overhead plan view of the current device

Fig. 2 is a front view of the current device

Fig. 3 is sectional view A – A' of the current device

① are the novel graduation markings

② are conventional graduation markings

X, Y, and Z show eye locations from which the graduation marking lines are viewed

A – A' is a cross-section

B, B', C indicate relative fixed points on the illustrations

Utility Model Registration Applicant: Takizawa, Jiro

Drawings

Fig. 1

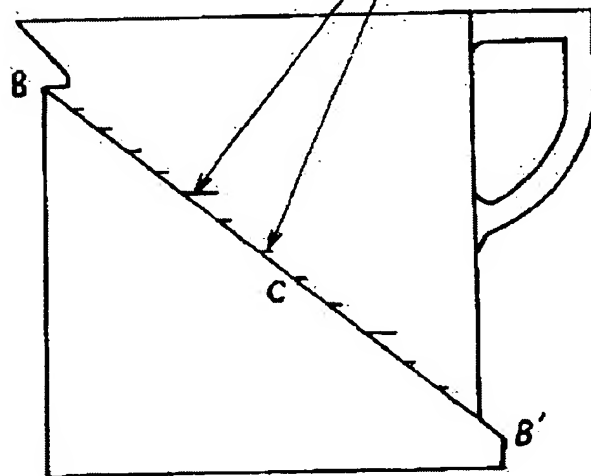
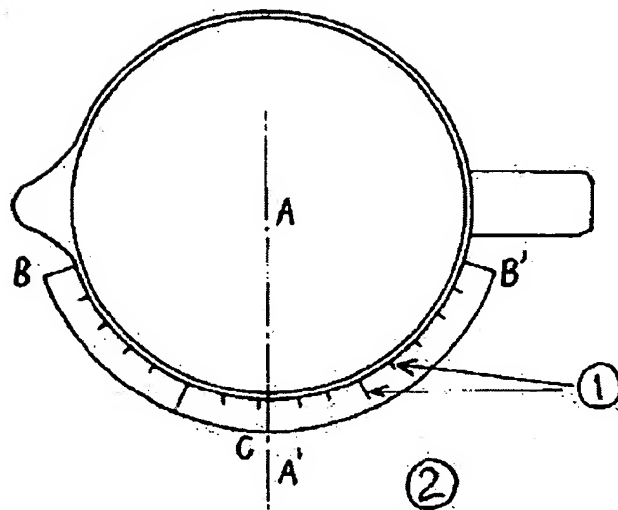


Fig. 2

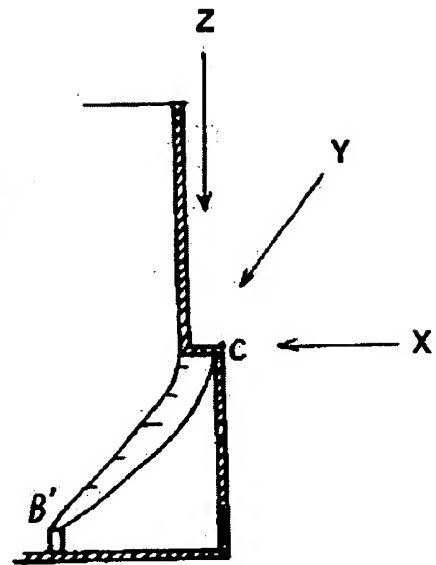


Fig. 3

U.S. Patent

Jul. 1, 1997

Sheet 2 of 3

Des. 380,345

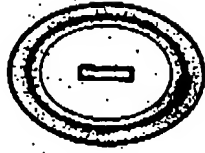


FIG. 4



FIG. 2



FIG. 3



FIG. 5